

APPLICATION NO.

10/663,677

22850

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09/17/2003 David Bayreuther 230110US26 2490

EXAMINER

VAK, MCCLELLAND, MAIER & NEUSTADT, P.C. SPITZER, ROBERT H

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ART UNIT PAPER NUMBER

1724

DATE MAILED: 12/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

· · ·		Application No.	Applicant/e)	<i>1</i> 6
Office Action Summers		Application No.	Applicant(s)	U
		10/663,677	BAYREUTHER, DAVID	
	Office Action Summary	Examiner	Art Unit	
		Robert H. Spitzer	1724	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).				
Status	•			
1)	Responsive to communication(s) filed on			
2a)□		action is non-final.		
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims				
4) Claim(s) 1-30 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-7 and 13-21 is/are allowed. 6) Claim(s) 8-12 and 22-30 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers				
9)☐ The specification is objected to by the Examiner.				
10) ☐ The drawing(s) filed on 17 September 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachmen	it(s)			
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)				
3) 🛛 Infon	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date 09/17/2003.		ail Date nal Patent Application (PTO-152))

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DETAILED ACTION

1. Claims 1-7 and 13-21 are allowed.

2. The abstract of the disclosure is objected to because of undue length, as it is approximately 170 words long. Correction is required. See MPEP § 608.01(b).

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

- 3. The drawing figures are objected to because there are no numbers 22b-22e and 30a thereon. Either the numbers must be added to the drawing figures or deleted from the specification.
- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 8-12 and 22-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 8 is indefinite because there is no direct antecedent basis for the recitation of "said motor assembly". Claim 9 is indefinite because it recites "said first disc includes five holes" without any correlation to "a first

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disc including two holes" previously recited in claim 5, and because it recites "said second disc includes a first aperture, a second aperture, a third aperture, a fourth aperture, and a fifth aperture" without any correlation to the "two apertures" previously recited in claim 5. Claim 10 is indefinite because it depends from indefinite claim 9. Claim 11 is indefinite because there is no direct antecedent basis for the recitation of "said second and third passageways". Claim 12 is indefinite because there is no direct antecedent basis for the recitation of "said first valve element". Claim 22 is indefinite because it has two steps labeled "(iv)" and no step "(v)". Claims 23-26 and 28-30 are indefinite because they depend from indefinite claim 22. Claim 27 is indefinite because there is no direct antecedent basis for the recitation of "said step (v)".

- 6. Claims 8-12 and 22-30 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 7. The references listed on both the PTO-1449 and the PTO-892 show art of interest only, over which the claims define allowable subject matter, as none of the references show a continuous drive mechanism being used through intermittent means to control the movement of valve discs.
- 8. Applicant's response to this Office action should also include the following editorial changes: para. [0026], line 1, "2B" should be "1B"; para. [0027], line 13, "manger" should be "manner"; para. [0030], line 4, "hole" should be "holes"; para. [0030], line 7, "first disc 15" should be "first disc 16"; para. [0031], line 5, "in recognized" should be "is recognized"; para. [0033], line 10, "manger" should be "manner"; para. [0036], line 1, "5" should be deleted, as there is no Fig. 5 and it is Figs. 5A and 5B which

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show first portion 29a and not second portion 29b; para. [0039], line 7, "mercaptains" should be "mercaptans"; para. [0039], line 8, "vessel" should be "vessels"; and, para. [0046], line 3, "of each of" should be "of each".

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert H. Spitzer whose telephone number is (571) 272-1167. The examiner can normally be reached on Monday-Thursday from (5:30AM-4:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

December 21, 2004

Robert H. Spitzer Primary Examiner Art Unit 1724 Page 4

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